



The electrical industry awards - (i) Power Innovative Power Product of the Year



the **brightest ideas** are often the simplest ...

Lighting for health is more than a fixture choice!

The healthcare sector has for many years talked about better lighting improving patient response to treatment and wellbeing. Yet few people discuss control of lighting in the same vein although a key issue faced by patients is the lack of control. In the healthcare sector nowhere is this more relevant than in mental health facilities. When looking at medium and high secure units the very nature of the patient experience is reduced level of control.

If we compare how we operate lighting in our own homes to what is often the case in the mental health sector we can clearly see how we can improve.

In the home we often choose a brightly lit space to help kick start our day yet in the evening we generally proffer a dimly lit "cozy" environment. In the home this can be relatively easy and cheap to achieve either by using freestanding lamps or by dimming the mains to the lights. Legislation dictates we cannot use the same light sources in the professional sector which means delivering a simple dimming solution is more expensive and often more complex.

If we then look at the preferable control solution for a patient bedroom the complexity and costs are increased.

Give the patient manual control of his lights including the facility to dim his/her lights to create a cosier environment.

Give the ward staff the ability to slowly ramp up the lighting inside the patient bedroom without entering the room or just switching the lights to 100%. This reduces the disturbance to patient and the risk of waking them during an evening inspection.

Using fluorescent and LED light sources increases the complexity and cost of delivering this solution or does it?

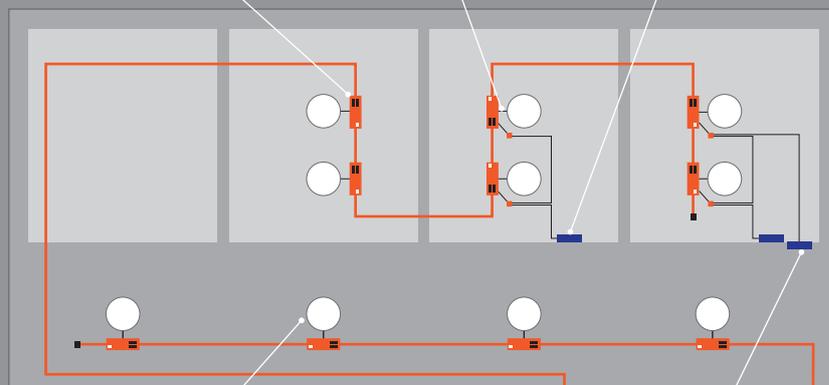
Isotera have developed a solution which overcomes the commercial and technical hurdles to delivering such solutions whilst reducing the cost of installation and removing any risk of electric shock.

Power to the lights is provided via an AC constant current bus pair which can not give an electric shock even if somebody gets both hands on bare wires. As it's a bus polarity is not an issue.

Lights are connected to the power supply Bus cable using induction, can be worked on whilst the circuit is live without the need for any tools and with zero risk of electric shock.

Controls wires are SELV – Safe Low voltage plug & play wiring with telephone connector plugs

Lights are dimmable down to 1% via patients momentary action switch (push to make)



Corridor lights can be switch or dimmed via local switch, Sensor or time clock

Patient lights can be dimmed down to off or up from off slowly to avoid patient disturbance. From the local corridor switch.

The use of an ultra-safe bus wire system which **cannot administer an electric shock** with inductive connections for LED light fixtures provides the platform for a **simple, intuitive, safe and reliable lighting controls solution.**



The Isotera system facilitates the implementation of user friendly and cost effective control solution which can dramatically improve the patient experience.

An Award Winning way of **powering** and **controlling** LED lighting

isotera[™]
contactless power for LED lighting